

The following news briefs are sent to you by the National Synchrotron Light Source at Brookhaven National Laboratory, Upton, New York www.nsls.bnl.gov

Reminder

NSLS Town Meeting

Monday, August 7th
1:00 - 3:00 p.m.
NSLS Seminar Room

The NSLS Users' Executive Committee (UEC) invites you to a Town Meeting of the NSLS user community and staff. This informal gathering creates a forum where representatives of the UEC and staff can discuss issues of interest with members of the user community. Members of the UEC and Light Source staff will be in attendance to discuss user issues.

Agenda

Welcome

Mark Chance (Albert Einstein College of Medicine, UEC Chair)

NSLS Chairman's Report

presented by Richard Heese (NSLS)

Computer Security at BNL

Herb Langenbach (NSLS)

Report on 2000 Annual Users' Meeting and

Plans for 2001 Annual Users' Meeting

Simon Bare (UOP, UEC Vice Chair)

User Administration Report

Mary Anne Corwin (NSLS User Administrator)

BNL Site Master Plan: Long Term Planning at BNL

Tom Sheridan (BNL Deputy Lab Director for Operations)

Over 1000 Visitors at BNL's Summer Sunday Tour - NSLS Featured

This past Sunday, July 30, more than 1000 visitors came to BNL for the Summer Sunday Tour Program. Highlights at Berkner Hall included the Whiz Bang Science Show, a 3D science demonstration, a presentation on radioactivity in every day life including Geiger counter testing of sand and common dishware, demonstrations in groundwater flow and CO₂, and the Camp Upton historical collection.

The National Synchrotron Light Source was the featured facility for this week's tour, where 862 visitors met with staff and scientists who described synchrotron light, its scientific uses, research techniques and applications. Speakers included Scientists Sue Wirick, Elaine DiMasi and Lisa Miller, as well as NSLS Staff Andrew Ackerman and Tom Dickinson. Thanks to coordination efforts by NSLS Staff Tom Dickinson, Andrew Ackerman, Gerry Van Derlaske, Rich Biscardi, and Joe Sheehan, the NSLS presentation was first-class.

Several exhibits were on display in the NSLS lobby and many scientists were on hand to give demonstrations and talk about their work. Steve Hulbert displayed a plane grating monochromator, which works in the visible to see the dispersion of visible light. This monochromator was the heart of Beamline U4 in the 1980s, owned and operated by Bell Labs. Steve rotated his source of light between a halogen lamp and a fiber optic cable which transported light from a

diagnostic port from the VUV ring assembled by Larry Carr. Syed Khalid graphically displayed the structure of common table salt (sodium chloride) and copper in a 3D computer presentation to show how atoms are arranged and how we use the synchrotron to find the structure of proteins, viruses, and other complex materials to synthesize drugs for treatment. Also on hand was Peter Siddons with his goniometer, which works with several crystals that can be oriented in the beam to measure the beam's polarization characteristics. Sue Wirick and Chris Jacobsen set up a microscope showing a zone plate (an xray focusing device). Nick Gmur's display explained digital subtraction transvenous coronary angiography. A display by Tony Lenhard and Rick Greene provided a view of silicon crystals. Tom Langdon set up an automatic sample manipulator for liquid samples. There were several poster displays including photo collections by Joe Sheehan and Nick Gmur of Camp Upton and the NSLS.

Eileen Morello, Lydia Rogers, Laura Miller, Joe Sheehan, Gary Weiner, John Klug, Tony Lenhard, Larry Fareria, George Rakowski, Lynn Ribaud, Steve Bennett, Chris Weilandics, and Mary Anne Corwin assisted in guiding tour groups through the NSLS for presentations, views of the VUV floor, and to lobby displays and exhibits. In all, 23 volunteers helped to make this tour very successful.

Biology Department's New User Administrator

Denise Kranz has been named as the new User Administrator for the Biology Department's Macromolecular Crystallography Program. Her responsibilities include the scheduling users, tracking usage of beam time, assembling scientific progress reports, tracking commitments, coordinating data-collection and other related courses as well as conferences. Welcome, Denise.



User Obligations and Reminders

All users must pre-register for each visit with NSLS User Administration to gain access to BNL. Go to URL:

<http://nslsweb.nsls.bnl.gov/nsls/dbforms/user-regis.asp>

All foreign nationals must submit Form IA-473 (in some cases, 90 days in advance). Complete the online form at URL:

<http://nslsweb.nsls.bnl.gov/nsls/users/procedures/foreign.htm>

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